

Title: CARD-DOMAIN CONTAINING POLYPEPTIDES...

Inventors: Pawlowski et al.

Serial No.: 10/032,159

1/11

#5

147 atgtcggactacgagaacgatgacgagtgtggaacgtcctggaq CARD domain  
M S D Y E N D D E C W N V L E  
192 ggcttccgggtgacgctcacctcggtcacgacccctcacgcatc  
G F R V T L T S V I D P S R I  
237 acaccttacctgcggcagtgcaaggtcctgaaccctgatgatgag  
T P Y L R Q C K V L N P D D E  
282 gagcaggtgctcagcgaccccaacctggtcatccgaaaacgga  
E Q V L S D P N L V I R K R K  
327 gtgggtgtgctcctggacatcctgcagcggaccggccacaagggc  
V G V L L D I L Q R T G H K G  
372 tacgtggccttctcagagagcctggagctctactaccgcagctg  
Y V A F L E S L E L Y Y P Q L  
417 tacaagaaggtcacaggcaaggagccggcccgctcttctccatg  
Y K K V T G K E P A R V F S M  
462 atcatcgacgcgtccggggagtcaggcctgactcagctgtgatg  
I I D A S G E S G L T Q L L M  
507 actgaggtcatgaagctgcagaagaaggtgcaggacctgaccgag  
T E V M K L Q K K V Q D L T A  
552 ctgctgagctccaaagatgacttcatcaaggagctgcgggtgaag  
L L S S K D D F I K E L R V K  
597 gacagcctgtgcgcaagcaccaggagcgtgtgcagaggctcaag FILAMENT domain  
D S L L R K H Q E R V Q R L K  
642 gaggagtgcgaggccggcagccgagctcaagcgtgcaaggag  
E E C E A G S R E L K R C K E  
687 gagaactacgacctggccatgcgcctggcgcaccagagtgaggag  
E N Y D L A M R L A H Q S E E  
732 aagggcgccgctcatgcggaaccgtgacctgcagctggagatt  
K G A A L M R N R D L Q L E I  
777 gaccagctcaagcacagcctcatgaaggccgaggacgactgcaag  
D Q L K H S L M K A E D D C K  
822 gtggagcgcaagcacagcgtgaagctcaggcacgcatggagcag  
V E R K H T L K L R H A M E Q  
867 cggcccagccaggagctgtgtggagctgcagcaggagaaggcc  
R P S Q E L L W E L Q Q E K A  
912 ctgctccaggcccggtgcaggagctggaggcctccgtccaggag  
L L Q A R V Q E L E A S V Q E  
957 gggaagctggacaggagcagccctacatccaggtactggaggag  
G K L D R S S P Y I Q V L E E  
1002 gactggcgccagcgctgcgggaccaccaggagcaggccaaacac  
D W R Q A L R D H Q E Q A N T  
1047 atcttctccctgcgcaaggacctccgccaggcgaggcccgacgc  
I F S L R K D L R Q G E A R R  
1092 tccgggtgcagtgaggagaaggagatgttcgagctgcagtgccctg  
L R C M E E K E M F E L Q C L  
1137 gcactacgtaaggactccaagatgtacaaggaccgcatcgaggcc  
A L R K D S K M Y K D R I E A  
1182 atcctgctgcagatggaggaggtcgccattgagcgggaccagagc  
I L L Q M E E V A I E R D Q S  
1227 acacaaatggaggggctgtga 1247  
T Q M E G L \*

FIGURE 1

Title: CARD-DOMAIN CONTAINING POLYPEPTIDES...

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Serial No.: 10/032,159

2/11

1 atggatgactacatggagacgctgaaggatgaagaggaccccttg CARD domain  
M D D Y M E T L K D E E D A L  
46 tgggagaatgtggaagttaaccggcacatgctcagccgctatatc  
W E N V E C N R H M L S R Y I  
91 aaccctgccaaagctcacgcccctacctgcgtcagcttaaggtcatt  
N P A K L T P Y L R Q C K V I  
136 gatgagcaggaatgaagatgaagtgcttaatgccccctatgctgcc  
D E Q D E D E V L N A P M L P  
181 tccaagatcaaccgagcagccgctgcttgacattctacatacc  
S K I N R A G R L L D I L H T  
226 aagggggcaaggggctatgtggtcttcttgagagcctagaattt  
K G O R G Y V V F L E S L E F  
271 tattaccgaactgtacaaactggtgactgggaaagagccact  
Y Y P E L Y K L V T G K E P T  
316 cggagattctccaccattgtggtggaggaaggccacgaggccctc  
R R F S T I V V E E G H E G L  
361 acgcacttctgatgaacgaggtcatcaagctgcagcagcagatg ERM (ezrin) domain  
T H F L M N E V I K L Q Q Q M  
406 aagqccaaagacctgcaacgctgcagagctgctgqccaggttgccg  
K A K D L Q R C E L L A R L R  
451 caqctggaggaatgagaagagcagatgacgctgacgcgcgttgag  
Q L E D E K K Q M T L T R V E  
496 ctgctaacccttccagagcggctactacaagatgaaagaaagcgg  
L L T F Q E R Y Y K M K E E R  
541 gacagctacaatgacgagctggtcaaggtgaaqgacgacaactac  
D S Y N D E L V K V K D D N Y  
586 aacttagccatgcgctacgcacagctcagtgaggagaaagacatg  
N L A M R Y A Q L S E E K N M  
631 qcgtcatgaggaagccgagacctccaactcgagatcgatcagcta  
A V M R S R D L Q L E I D Q L  
676 aaqcaccggttgaaataagatggaggaaggaatgtaagctggagaga  
K H R L N K M E E E C K L E R  
721 aatcagctctctaaaactgaaqaatgacattgaaaatcqqcccaag  
N Q S L K L K N D I E N R P K  
766 aaggaagcaggttcttgaaactggagcgggagaatgaaatgctgaag  
K E Q V L E L E R E N E M L K  
811 accaaaaaccagagcgtgcagctccatcatccagccgqgaagcgc  
T K N Q E L Q S I I Q A G K R  
856 agcctgcccagactcagacaagggccatcctggaacatcttggaacac  
S L P D S D K A I L D I L E H  
901 gaccqcaaggaagccctggaggaagcaggaagctggtcaacagg  
D R K E A L E D R Q E L V N R  
946 atctacaacctgcaggaaggaagcccgccaggaaggaagctgcga  
I Y N L Q E E A R Q A E E L R  
991 gacaagtaacctggaggaaggaaggaagcctggagctcaagtgctcg  
D K Y L E E K E D L E L K C S  
1036 accctgggaaaggaactgtgaaatgtacaagcaccgcataaacagg  
T L G K D C E M Y K H R M N T  
1081 gtcagctgcagctggaggaaggtggagcgggagcgggaccagggga  
V M L Q L E E V E R E R D Q C

FIGURE 2A

## Title: CARD-DOMAIN CONTAINING POLYPEPTIDES...

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Serial No.: 10/032,159

3/11

1126 caqqctgtggccttccagggagactgcacacaaagctctcaacaca  
Q A V A F Q G H C I K A L N T

1171 gaqccttgcacactagcaaggttcggaccatcggtctctggtatcgcg  
E P A T S K G R T I G S V I A

1216 ttaatqaaagagccttccactcccgagatgaagctcagacaca  
L M K K A P H S R D E A Q T Q

1261 tactcgcagtgtttaatcgaagaaagacaaatcaggaagcagatc  
Y S Q C L I E K D K Y R K Q I

1306 cgcagagctggaaggaagaaacgacagagatgagatcgagatgggtg  
R E L E E K N D E M R I E M V

1351 cggcgaggagcctgcacgtcaacctggagagcaagctgcggcgc  
R R E A C I V N L E S K L R R

1396 ctctccaaaggacagcaacaacctggaccagagctctgccaggaac  
L S K D S N N L D Q S L P R N

1441 ctgccagtaaccatcatctctcaggacttctggggatgccagcccc  
L P V T I I S Q D F G D A S P

1486 aggaccaatgggtcaagaagctgacgattctctccacctcggaggag  
R T N G Q E A D D S S T S E E

1531 tcacctgaagacagcaagtacttctgacctaccatccgccccag  
S P E D S K Y F L P Y H P P Q

1576 cgcaggatgaacctgaaggcatccagctgcagagagccaaatcc  
R R M N L K G I Q L Q R A K S

1621 cccacagcctgaagcgaacatcagattttcaagcgaaggggcac  
P I S L K R T S D F Q A K G H

1666 gaggaagaaggcagcagccagccctagctcctgaggatctctg  
E E E G T D A S P S S C G S L

1711 cccacaccaactccttcaccaagatgcccccccgaggccgcagc  
P I T N S F T K M P P R S R S

1756 agcatcatgtcaatcacccgagccccgggaaacgactccatc  
S I M S I T A E P P G N D S I

1801 gtcagagcgtacaaggaggacgcgccccatcgagcacagctcgaa  
V R R Y K E D A P H R S T V E

1846 gaagacaatgacagcggcggtttgacgccttagatctggatgag  
E D N D S G G F D A L D L D E

1891 ctggcagcggggagactgtggctcagagctcctccaggtgtgccc  
L A A G E T V A Q S P P G V P

1936 tgccagccccctctcttccagggctccccagcctttgccaagcta  
C Q P P L F Q G S P S L C Q L

1981 aggctgccaaaccgatgaaacgaaagatgagtggtcctccttaatg  
R L P T D E T K D E W S S L M

2026 gggaagcatcagcgtaccgaagtgttaaagagagatgacagtcac  
G K H Q R Y Q V L K R D D S H

2071 gaacgtactccttcggaccctcctccatccactcctcctcctcc  
E R Y S F G P S S I H S S S S

2116 ccccaccaatccgagggcctggatgcctacgacctggagcaggtc  
S H Q S E G L D A Y D L E Q V

2161 aacctcatgttcaggaagttctctcttgaagaaaccccttccggcct  
N L M F R K P S L E R P F R P

2206 tcggttcacctctgttggggcacgtgccccggccagggcctcggtg  
S V T S V G H V R G P G P S V

2251 caqcacacgacgctgaatggcagacacccctcaccctccagctcacc  
Q H T T L N G D S L T S Q L T

2296 ctgctggggggcaacgcgcgagggagcttctgacactcgggtcaag  
L L G G N A R G S F V H S V K

2341 cctggtctcttggccgagaaagccggcctcctgagggccaccag  
P G S L A E K A G L R E G H Q

2386 ctgctgctgctagaaggttcacatccgagggcagagggcagagtttc  
L L L L E G C I R G E R Q S V

2431 ccgttggagacatgcaccaaaagaggaagccactggaccatccag  
P L D T C T K E E A H W T I Q

2476 aggttcagcggccccctcacgctgcactacaaggtcaaccacgaa  
R C S G P V T L H Y K V N H E

2521 gcccagcagaaaaatccgctgggctgcagaatgatgtgggcag

PDZ domain

FIGURE 2B

Title: CARD-DOMAIN CONTAINING POLYPEPTIDES...

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Serial No.: 10/032,159

4/11

A Q Q K I R G P A E Y D V G S  
2566 acctccaaagcccgagctgcgagcagcacagccctgcaagtct  
T S K A R S C A A A Q P C K S  
2611 ggaattccagggaaagaaagtccattccggcaggggtaccggaag  
G I P G K E S S F R Q G Y R K  
2656 ctggtgaaggacatggaggacggcctgatcacatcgggggactcg  
L V K D M E D G L I T S G D S  
2701 ttctacatccggctgaacctgaacatctccagccagctggacgcc  
F Y I R L N L N I S S Q L D A  
2746 tgcaccatgtccctgaagtgtgacgatgttgtgcacgtccgtgac  
C T M S L K C D D V V H V R D  
2791 accatgtaccaggacaggcacgagtggtgtgcgcgcggtcgac  
T M Y Q D R H E W L C A R V D  
2836 ccttttcacagaccatgacctggatattgggcaccatacccagctac  
P F T D H D L D M G T I P S Y  
2881 agcggagcccagcagctcctcctgggtgaaactgcagcgcctgatg  
S R A Q Q L L L V K L Q R L M  
2926 caccgaggcagccgggaggaggttagacggcaccacaccacccctg  
H R G S R E E V D G T H H T L  
2971 cgggcactccgggttcgtcagcaggtccgagaacaagtataagcgg  
R A L R F V S R S E N K Y K R  
3016 atgaacagcaacgagcgggtccgcatcatctcggggagtccgcta  
M N S N E R V R I I S G S P L  
3061 gggagcctggcccgggtcctcgctggacgccaccaagctcttgact  
G S L A R S S L D A T K L L T  
3106 gagaagcaggaagagctggaccctgagagcgagctgggcaagaac  
E K Q E E L D P E S E L G K N  
3151 ctcagcctcatccccctacagccttggtacgcgcttctactgcgag  
L S L I P Y S L V R A F Y C E  
3196 cgccgcccggcccggtgctcttcacacccaccgtgctggccaagacg  
R R R P V L F T P T V L A K T  
3241 ctggtgcagaggctgctcaactcgggaggtgccatggagttcacc  
L V Q R L L N S G G A M E F T  
3286 atctgcaagtccagatatcggtcacaagagatgagttcctcagaagg  
I C K S D I V T R D E F L R R  
3331 cagaagacggagaccatcatctactcccagagagaagaaccccaac  
Q K T E T I I Y S R E K N P N  
3376 gcgttcgaatgcacgcggccctgccaacattgaagctgtggccgccc  
A F E C I A P A N I E A V A A  
3421 aagaacaagcactgcctgctggaggctgggatcggctgcacaaga  
K N K H C L L E A G I G C T R  
3466 gacttgatcaagtccaacatctaccccatcgctgctcttcacccgg  
D L I K S N I Y P I V L F I R  
3511 gtgtgtgagaagaacatcaagaggttcagaaagctgctgccccga  
V C E K N I K R F R K L L P R  
3556 cctgagacggaggaggaggttcctgcgcggtgtgccggctgaaggag  
P E T E E E F L R V C R L K E  
3601 aaggagctggaggccctgcccgtgctgtacgccacgggtggaacct  
K E L E A L P C L Y A T V E P  
3646 gacatgtggggcagcgtagaggagctgctcccgcttgtcaaggac  
D M W G S V E E L L R V V K D  
3691 aagatcggcaggagcagcgcaagaccatctgggtggacgaggac  
K I G E E Q R K T I W V D E D  
3736 cagctgtga 3744  
O L

FIGURE 2C

Title: CARD-DOMAIN CONTAINING POLYPEPTIDES...

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Serial No.: 10/032,159

5/11

1 atgggggaactgtgccgcagggactccgcactcacggcactggac  
M G E L C R R D S A L T A L D  
46 gaggagacactgtgggagatgatggagagccaccgccacaggatc  
E E T L W E M M E S H R H R I CARD domain  
91 gtacgctgcacatctgccccagccgcctcacccctacctgcgccag  
V R C I C P S R L T P Y L R Q  
136 gccaaggtgctgtgccagctggacgagggaggtgctgcacagc  
A K V L C Q L D E E E V L H S  
181 ccccgctcaccaacagcggcatgcggggcgggcacttgctggat  
P R L T N S A M R A G H L L D  
226 ttgctgaagactcgagggaaqaacggggccatcgcccttcctggag  
L L K T R G K N G A I A F L E  
271 agcctgaaqgttccacaaccctgacgtctacaccctggtcaccggg  
S L K F H N P D V Y T L V T G  
316 ctgcagcctgatgttgacttcagtaactttagcggtgagagctcc  
L Q P D V D F S N F S G E S S  
361 gactttgacggtttggcaggcacttctaggaacctcaggctcctg  
D F D G L A G T S R N L R L L  
406 gtaaccccagnn 417  
V T P X

FIGURE 3

# Title: CARD-DOMAIN CONTAINING POLYPEPTIDES...

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Serial No.: 10/032,159

6/11

GI "10436238"

1	msdyenddec	wnvlegfrvt	ltsvidpsri	tpylrqckvl	npddeeqvls	dpnlvirkrk
61	vgvllldilqr	tghkgyvafl	eslelyypql	ykkvtgkcpa	rvfsmiidas	gesgltqlm
121	tevmklqkkv	qdlallssk	ddfikelrvk	dsllrkhrqer	vqrlkeecaa	gsrlkrcke
181	enydlamrla	hqseekgaal	mnrndlqlei	dqlkhsmlka	eddcckverkh	tlklrhameq
241	rpsqellwel	qqekallqar	vqealeasvqe	gklrdrsspyi	qvleedwrqa	lrhdheqant
301	ifslrkdlrq	gearrlrcme	ekemfelqcl	alrkdsksmyk	drieaillqm	eevaierdqs
361	tqmegl					

GI "10436237"

1	atcatcagga	agtgcacagg	cgtccggcgt	gctcctccct	ccctgcagcc	ccgggcagca
61	tctcccagag	gctccgcggc	ccaggctcct	ggtgtgtctg	cagtgcaggt	ggctcctgga
121	agaccctcag	cctgcctgct	gaggccatgt	cggactacga	gaacgatgac	gagtgtctga
181	acgtcctgga	gggcttccgg	gtgacgtca	cctcggatca	cgacccctca	cgcatacac
241	cttacctgcg	gcagtgcagg	gtcctgaacc	ctgatgatga	ggagcagggtg	ctcagcgacc
301	ccaacctggg	catccgcaaa	cggaaagtgg	gtgtgtcct	ggacatcctg	cagcggaccg
361	gccacaaggg	ctacgtggcc	ttcctcgaga	gcctggagct	ctactaccgg	cagctgtaca
421	agaaggtcac	aggcaaggag	ccggcccgcg	tcttctccat	gatcatcgac	gcgtccgggg
481	agtcaggcct	gactcagctg	ctgatgactg	aggtcatgaa	gctgcagaag	aaggtgcagg
541	acctgaccgc	gctgctgagc	tccaaagatg	acttcatcaa	ggagctgcgg	gtgaaggaca
601	gcctgctgcg	caagcaccag	gagcgtgtgc	agaggctcaa	ggaggagtgc	gggccgggca
661	gccgcgagct	caagcgtctg	aaggaggaga	actacgacct	ggccatgcgc	ctggcgacc
721	agagtgaaga	gaaggcgccg	gcgctcatgc	ggaaccgtga	cctgcagctg	gagattgacc
781	agctcaagca	cagcctcatg	aaggccgagg	acgactgcaa	ggtggagcgc	aagcacacgc
841	tgaagctcag	gcacgccatg	gagcagcggc	ccagccagga	gctgctgtgg	gagctgcagc
901	aggagaaggc	cctgctccag	gcccgggtgc	aggagctgga	ggcctccgtc	caggagggga
961	agctggacag	gagcagcccc	tacatccagg	tactggagga	ggactggcgg	caggcgctgc
1021	gggaccacca	ggagcaggcc	aacaccatct	tctccctgcg	caaggacctc	cgccagggcg
1081	aggcccagag	cctccgggtgc	atggaggaga	aggagatggt	cgagctgcag	tgctggcac
1141	tacgtgaaga	ctccaagatg	tacaaggacc	gcatacgagg	catcctgctg	cagatggagg
1201	aggtcgccat	tgagcgggac	cagagcacac	aaatggaggg	gctgtgacca	gcctccgcgc
1261	ccagcggtct	gacgtcctcc	ggagcctctg	cttggagtgt	ggcggccggg	ccgagggccc
1321	agggcaagct	tggggccctc	actgagggtc	ggccttgtgc	tgtcccgtca	ggccatagcc
1381	acgcgggagg	agctgcacgc	acagcacgcc	cggggcctgc	aggagaagga	cgcgctgcgc
1441	aagcaggtgc	gggagctggg	cgagaaggcg	gatgagctgc	agctgcaggt	gttccagtgt
1501	gaggcgagc	tactggccgt	ggagggcagg	ctcaggcggc	agcagctgga	gacgtcgtc
1561	ctgagctccg	acctggaaga	tggctcacc	aggaggtccc	aggagctctc	actccccag
1621	gacctggagg	acaccagct	ctcagacaaa	ggctgccttg	ccggcggggg	gagccgaaa
1681	cagccctttg	cagctctgca	ccaggagcag	gttttgcgga	accccatga	cgcaggcctg
1741	agcagcgggg	agccgcccga	gaaggagcgg	cggcgccctca	aagagagttt	tgagaactac
1801	cgcagggaagc	gcgcccctag	gaagatgcag	aaaggatggc	ggcaggggga	ggaggaccgg
1861	gagaacacca	cgggcagcga	caacaccgac	actgagggt	cctagccgca	gcagacttcc
1921	ccgagccgtc	gctgacttgg	cctggaacga	ggaatctggt	gccctgaaag	gcccagccgg
1981	actgccgggc	attggggccg	tttggttaagc	ggcactcatt	ttgcggaggc	catgcgggtg
2041	ctcaccaccc	ccatgcacac	gccatctgtg	taacttcagg	atctgttctg	tttcaccatg
2101	taacacacaa	tacatgcatg	cattgtatta	gtgttagaaa	acacagctgc	gtaaataaac
2161	agcacgggtg	accgcg				

FIGURE 4

Title: CARD-DOMAIN CONTAINING POLYPEPTIDES...

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Serial No.: 10/032,159

7/11

CARD10X ESTs

GI"9094656"

GAGAGGCTCCGCGGCCAGGCTCCTGGTGTGTCTGCAGTGCAGGTGGCTCCTGGAAGACC  
CTCAGCCTGCCTGCTGAGGCCATGTTTGA CTACGAGAACGATGACGAGTGCTGGAGCGTC  
CTGGAGGGCTTCCGGGTGACGCTCACCTCGGT CATCGACCCCTCACGCATCACACCTTAC  
CTGCGGCAGTGCAAGGTCCTGAACCCCGATGATGAGGAGCAGGTGCTCAGCGACCCCAAC  
CTGGTCATCCGCAAACGGAAAGTGGGTGTGCTCCTGGACAT

GI"7132200"

GGGACAGCCTGCTCCGCAAGCACCAAGAGCGGGTGCAGAAGATGAGGGAGGAGAGGGACA  
GTCTAAGCAAGGAGCTGCGGAAGTGCAAGGATGAGAACTACAACCTGGCAATGAGCTATG  
CCAGACAGAGCGAGGAGAAGAGCAGTGCCCTCATGAAGAACAGGGACCTGCTCCTAGAGA  
TTGATAGCTTGAAGCATAGCCTCATGAAGGTGAGGACGACTGCAAAGTGAAGCGTAAGC  
ACTCGATGAAACTGAAGCATGCCATAGAACAACGTCCGAGCCATGAAGTGATGTGGGAGA  
TCCAGCAGGAGAAGGAGCTGCTTTTGGCCAAGAATCAGGAGCTGGAGAACACTCTTCAGG  
TTGCCAGGGAACAGAATTTGGAGACGAGTCTCTCCCATGAGACTGTGCAGAATGACTGCA  
GCCAGGTGCTGGAGCGCCAGGACCTGCTGAACACCCTGTACCACCTTCGCAAGGAGCTGC  
GCCAAGCCGAGGTGCTTCGAGACAAGTTCGAGGAGTGCAGCTCAGCCCACGAGGAGCTGT  
CCGAGAAGGAGCGGAGGAGGATGAAGGACTGCTTTGAGCGTTACCGCAGGAAGCGCGCCC  
TGCGCAGAGCGCCCGCGGGCCCGCCCGCCCGAGGCCGACTGGGAGCCGAGCACGGGCAGC  
GACAACACGGACACCGAGGGCAGCTAGGGGCCGCGCCGAGCTTTCGAGTTTGAGCTGGAT  
CCGTCAATAAACAG

GI"5884878"

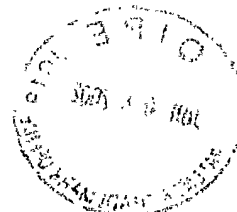
TGAACACCCTGTACCACCTTCGCAAGGAGCTGCGCCAAGCCGAGGTGCTCCGAGACAAGT  
ATGCAGAGGAAAAAGAAATACTTGAAGTACAGTGACATCTCTGAGGAAGGACTCCCAGA  
TGTATAAAAAACGGATGGAAGCTGTCTTAGAGCAGATGGAGGAAGTGGCTTCGGAAAGAG  
ACCAGGCACTGCTGACCAGAGAACAGTTCTACCCACAGTACTCCAAGAACCTTGTTGAGA  
GGGACACTTATCGGAAGCAGATTGCGGAGCTGGGGGAGCGATGCGATGAGCTGCAGCTGC  
AGCTCTTCCAAAAGGAGGGTCAGCTACTGGCTACTGAAGCCAAGCTGAAAAGACTGCAAC  
TGGAGCTGCCTGCACTGACTTCTGACCTGGATGACACTCCTCCAGAGATCCCAGGTCTTA  
CTCTCATGGTCATCTAGACGAAGATCGCACCTGACTAAAAAGACGCTGTTAAGGAAAAC  
CAGCAATCAGCATGCAAGAAACATCTGACGCAGATCACCCTTCGAGGATGCACTAACCA  
CAAGACTTCGAGAAGACGGAGAGATAAGGATGCTTGAGCGTACGAGTCGGCCGATCCGCG  
CCCCCCTCCGCGCTCCTTCCGTGGCTCGT

Title: CARD-DOMAIN CONTAINING POLYPEPTIDES...

Inventors: Pawlowski et al.

Serial No.: 10/032,159

8/11



CARD11X ESTs

GI"6926669"

CACGAGGGAAATGTACAAGCACCGCATGAACACGGTTCATGCTGCACCTGGAGGAGGTGGA  
GCGGGAGCGGGACCAGGCCCTCCACTCCCGAGATGAAGCTCAGACACAGTACTCGCAGTG  
CTTAATCGAAAAGGACAAGTACAGGAAGCAGATCCGCGAGCTGGAGGAGAAGAACGACGA  
GATGAGGATCGAGATGGTGC GGCGGGAGGCCTGCATCGTCAACCTGGAGAGCAAGCTGCG  
GCGCCTCTCCAAGGACAGCAACAACCTGGACCAGAGTCTGCCCAGGAACCTGCCAGTAAC  
CATCATCTCTCAGGACTTTGGGGATGCCAGC

GI"6143407"

TTTTTTTTTTTTTTTTCTCTCCTGCCTCCTCTGGCCTTCGGACTCCTGCCCGCGCCGCCCCG  
CAGCCCCCTCCCGGCCCTGCAGCCCCCTGGGCGGGCGGCCCTCGGAGGACGGCTCCGG  
GCCCCGGGGGACGGAGGGCCTGGTGCCTGGAGGAAGCCGGAGGCCTGCGTGGAGGAGGC  
GCCCCGCGCAGCTGGCTGGCGGAGCATGAGCGCCCCAGATCCCAAGCACTGCAAGTCCAG  
ATGCAACGGGAGCCTGGCTCAAGGGACGACAAGATCCAGCCGGAAGTGTAGAAGTCACA  
CCCCAATGGCGGGATAGCAGCCCCCTGTGTGTGAGCACCCCTCCATGCCAGGAGGAGGGCC  
AGAGATGGATGACTACATGGAGACCCTGAAGGATGAAGAGGACCCCTTGTGGGACAATGT  
GGAGTGTAACCGGCACATGCTCAACCGCTATATCAACCCTGCCAAGCTCACGCCCTAC

GI"2785620"

GCAGCCCCCTCCCGGCCCTGCAGCCCCCTGGCGTGCGGCGCCATCGGAGGACGGCTCCGGG  
CCCGGGGGGACGGAGGGCCTGGTGCCTGGAGGAAGCCGGACGCTGCGTGGAGGAGGCGC  
CCCCGGTCTGGTCTGGCGGACGATGAGCGCCCCAGATCCCAAGCACTGCAAGTCCAGATG  
CAACGGGAGCCTGGCTCAAGGGACGACAAGATCCAGCCGGAAGTGTAGAAGTCACACCC  
CAATGGCGGGATAGCAGCCCCCTGTGTGTGATCACCCCTCCATGCCAGGAGGAGGGCCAGA  
GATGGATGACTACATGGAGACGCTGAATGATGAAGAGGACGCCTTGTGGGAGAATGTGGA  
GTGTAACCGGCACATGCTCAGCCGCTATATCAACCC

GI"1838222"

AAAAGGAGGAGGGCCAGAGATGGATGACTACATGGAGACGCTGAAGGATGAAGAGGACGC  
CTTGTGGGTGAATGTGGAGTGTAACCGGCACATGCTCAGCCGGGTCTCACGAATTCCGCT  
GAGTTCTACGAATTCCGCTGAGGTCTCACGAATTCCGCTGA

GI"6927709"

CACGACGACGGACGCCAGCCCTAGCTCCTGCGGATCTCTGCCCATCACCAACTCCTTCAC  
CAAGATGCAGCCCCCGGAGCCGAGCAGCATATGTCAATCACCGCCGAGCCCCCGG  
AAACGACTCCATCGTCAGACGCTACAAGGAGGACGCGCCCCATCGCAGCACAGTCGAAGA  
AGACAATGACAGCGGGGGTTTGACGCCTTAGATCTGGATGATGACAGTCACGAACGCTA  
CTCCTTCGGACCCCTCCTCCATCCACTCCTCCTCCTCCCACCAATCCGAGGGCCTGGA  
TGCCTACGACCTGGAGCAGGTCAACCTCATGTTTCAGGAAGTTCTCTCTGGAAAGACCCTT  
CCGGCCTTCGGTCACCTCTGTGGGGCACGTTTCGGGGCCCAAGGCCCTCGGTGCAGCAC

FIGURE 6A

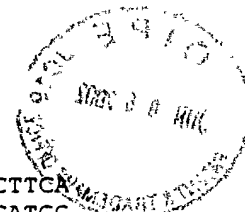


Title: CARD-DOMAIN CONTAINING POLYPEPTIDES...

Inventors: Pawlowski et al.

Serial No.: 10/032,159

9/11



GI"9720543"

TCATCCCCTACAGCCTGGTACGCGCCTTCTACTGCGAGCGCCGCCGCCGCTGCTCTTCA  
CACCCACCGTGCTGGCCAAGACGCTGGTGCAGAGGCTGCTCAACTCGGGAGGTGCCATGG  
AGTTCACCATCTGCAAGTCAGATATCGTCACAAGAGATGAGTTCCTCAGAAGGCAGAAGA  
CGGAGACCATCATCTACTCCCGAGAGAAGAACCCCAACGCGTTTGAATGCATCGCCCCTG  
CCAACATCGAAGCTGTGGCCGCCAAGAACAAGCACTGCCTGCTGGAGGCTGGGATCGGCT  
GCACAAGAGACTTGATCAAGTCCAACATCTACCCCATCGTGCTCTTCATCCGGGTGTGTG  
AGAAGAACATCAAGAGGTTTCAGAAAGCTGCTGCCCCGACCTGAGACGGAGGAGGAGTTCC  
TGCGCGTGTGCCGCTGAAGGAGAAGGAGCTGGAGGCCCTGCCGTGCCGTGTACGCCACGG  
TGGAACCTGACATGTGGGGCAGCGTAGAGGAGCTGCTCCGCGTTGTCAAGGACAAGATCG  
GCGAGGAGCAGCGCAAGACCATCTGGGTGGACGAGGACCAGCTGTGAGGCGGGCGCCCTG  
GGCAGAGAGA

GI"9142863"

TCATCCCCTACAGCCTGGTACGCGCCTTCTACTGCGAGCGCCGCCGCCGCTGCTCTTCA  
CACCCACCGTGCTGGCCAAGACGCTGGTGCAGAGGCTGCTCAACTCGGGAGGTGCCATGG  
AGTTCACCATCTGCAAGTCAGATATCGTCACAAGAGATGAGTTCCTCAGAAGGCAGAAGA  
CGGAGACCATCATCTACTCCCGAGAGAAGAACCCCAACGCGTTTGAATGCATCGCCCCTG  
CCAACATCGAAGCTGTGGCCGCCAAGAACAAGCACTGCCTGCTGGAGGCTGGGATCGGCT  
GCACAAGAGACTTGATCAAGTCCAACATCTACCCCATCGTGCTCTTCATCCGGGTGTGTG  
AGAAGAACATCAAGAGGTTTCAGAAAGCTGCTGCCCCGACCTGAGACGGAGGAGGAGTTCC  
TGCGCGTGTGCCGCTGAAGGAGAAGGAGCTGGAGGCCCTGCCGTGCCNTGGTACGCCA  
CGGTGGAACCTGACATGTGGGGCAGCGTAGAGGAGCTGCTCCGCGTGTGAGGACAGACGG  
CGAGAGCAGCGCAAGA

GI"1761194"

GCTCCTTCAGTTCGTACAGAGGTCGAGAACAAGTATAAGCGGATGAACAGCAACGAGCG  
GGTCCGATCATCTCGGGGAGTCCGCTAGGAGCCTGGCCCGTCCCTCGCTGGACGCCACCA  
AGCTCTTGACTGAGAAGCAGGAAGAGCTGGACCCTGAGAGCGAGCTGGGCAAGAACCTCA  
GCCTCATCCCCTACAGCCTGGTACGCGCCTTCTACTGCGAGCGCCGCCGCCCTGTGCTCT  
TCACACCCACCGTGCTGGCCAAGACGCTGGTGCAGAGGCTGCTCAACTCGGGAGGTGCCA  
TGGAGTTCACCATCTGCAAGTCAGATATCGTCACAAGAGATGAGTTCCTCAGAAGGCAGA  
AGACGGAGACCATCATCTACTCCCGAGAGA

GI"8151878"

AGAGACTTGATCAAGTCCAACATCTACCCCATCGTGCTCTTCATCCGGGTGTGTGAGAAG  
AACATCAAGAGGTTTCAGAAAGCTGCTGCCCCGGCCTGAGACGGAGGAGGAGTTCCTGCGC  
GTGTGCCGGCTGAAGGAGAAGGAGCTGGAGGCCCTGCCGTGCCGTGTACGCCACGGTGGA  
CCTGACATGTGGGGCAGCGTAGAGGAGCTGCTCCGCGTTGTCAAGGACAAGATCGGCGAG  
GAGCAGCGCAAGACCATCTGGGTGGACGAGGACCAGCTGTGAGGCGGGCGCCCTGGGCAG  
AGAGACTCTGTGGCGCGGGGCATCCTATGAGGCAGGCACCCCTGGGCAGAGAGATGTAGTG  
GGTGCGGGGGGATCCTGTGGCCACAGAGCTGCCCCAGCAGACGCTCCGCCCCACCCGGT  
GATGGAGCCCCGGGGGACAGTCGTGCCTGGGGAGGAGCAGGGTACAGCCCATCCCCCA  
GCCCTGGCTGACCTGGCCTAGCAGTTTTGGCCCTGCTGGCCTTAGCAGGGAGACAGGGGA  
GCAAAGAACGCCAAGCCGGGAGGCCAAGCCAGCCGGGCTCTCGAGGGGGGGCCCGGTCC  
CCATTTTGGCCTTTATGAGC

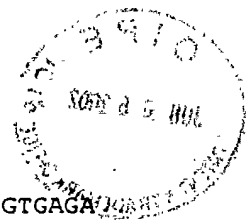
FIGURE 6B

Title: CARD-DOMAIN CONTAINING POLYPEPTIDES...

Inventors: Pawlowski et al.

Serial No.: 10/032,159

10/11



GI"2007639"

AAGAGACTTGATCAAGTCCAACATCTACCCCATCGTGCTCTNTCATCCGGGTGTGTGAGA  
AGAACATCAAGAGGTTTCAGAAAGCNGCTGCCCCGGCCTGAGACGGAGGNGNAGTTCCTGC  
GCGTGTGCCGGCTGAAGGNGAAGGAGCTGGAGGCCCTGCCGTGCCTGTACGCGACGGTGG  
AACCTGACATGTGGGGCAGCGTAGAGGAGCTGCTCCGCGTTNTATAAGGACAAGATCGGT  
GAGNAGCAGCGCAAGACCATCTNGGTAGACGAGGACCAGCTTT

GI"8042493"

GTGTACTGCCTTCTGAGGAACATCTCTGTGACGATATCTGACTTGCAGATGGTGAAC  
CCATGGCACCTCCCCGAGTTGAGCAGCCTCTGCACCAGCGTCTTGGCCAGCACGGTGGGTG  
TGAAGAGCACGGGCCGGCGGCTCGCAGTAGAAGGCGCGTACCAGGCTGTAGGGGATGA  
GGCTGAGGTTCTTGCCAGCTCGCTCT

GI"2079290"

GACTTGATCAAGTCCAACATCTACCCCATCGTGCTCTTCATCCGGGTGTGTGAGAAGAAC  
ATCAAGAGGTTTCAGAAAGCTGCTGCCCCGGCCTGAGACTGGAGGAGGAGTTCCTGCGCGT  
GTGCCGGCTGAAGGAGAAGGAGCTGGAGGCCCTGCGATGCCTGTACGCCACGGTGGAACC  
TGACATGTGGGG

GI"7044777"

GAAATAATAACATTTTAAATGCAAGAGAAATCATAGCCTGGTACACACCCCTTCCCCGA  
TCTGTCTGCCTGGGGATGTGTTTATGGTGAGTGTGTCCCCAGGACTGGTAGTCACCTGG  
CTGTCCGGGTCCCCGCCCTACTGGCGGCAGCATGCCTGTCCCCAGCATTACATTCAACTG  
CTGCTCTGGCTCTCGAGAGGCCGGCTGGCCTCNGGCCTTCCGGCTTGGCGTTCTTTGCTC  
CCCTGTCTCCCTGCTAAGGCCAGCAGGGCCAACTGCTAGGCCAGGTCAGCCAGGGCTGG  
GGGAATGGGCTGTACCCTGCTCCTCCCCAGGCACGACTGTCCCCCGGGGCTCCATCACC  
GGGTGGGGCGGAGCGTCTGCTGGGGCAGCTCTGTGGGCCACAGGATCCCCCGCACCCAC  
TGCATCTCTTGCCCATGGTGCCTGCCTCATAGGATGCCCCGCGCCACAGAGTCTATATG  
TCCAGGGCGCCCGCTCACAGCTGGTCTCGTCCACCCAGATGGTCTTGCGCTGCTCCTC  
GCCGATCTTGTCTTGACATCGCGGAGCAGCTCCTTTACGCTGCCCCACATGTCAGGTGC  
CCCCG

FIGURE 6C

Title: CARD-DOMAIN CONTAINING POLYPEPTIDES...

Inventors: Pawlowski et al.

Serial No.: 10/032,159

11/11

CARD 12X EST

GI"10316320"

TCATGCCAGCTCCGTCCCACCCAGCAGCCCGCAGAGAAAGGAGGCAGCTGGCACCACAC  
TGGGCTTTGGAGACACTGCGGGGACTGTGGACCCACCCCTGCTGCACGGAGCTCCTGCAA  
AAGCAAACCTGAGAACCTTGGGTCTCCAGCGCCAGCCATGGGGGAAGTGTGCCGACG  
GGAATCCGCACTCACGGCACTGGACGAGGAGACACTGTGGGAGATGATGGAGAGCCACCG  
CCACAGGATCGTACGCTGCATCTGCCCCAGACGACATTAACCCCTATACTGTGACGCACA  
GCGCCAGAGGCTGGCTGCTGACCATGGATGGACCGAGGAGGGAGGTTGCTGCACCAGCGC  
CCACGAGACATCAACAACAGACGCACACTGCGGGGCGGGGCACATAGCGTGGCCTCGCGC  
TAGAAAGACATCAGAGGAGAAAGAAGCGGGGGCCCACTCGCACTCACCGTGAGTAGACGC  
CATGCACAGTACCACCAAACCCATGAGCGCTACTACAACCCATGGGTCAACAGGGCATGA  
CAGCCTGGATGCATAGACATAACAAGTAACTTCTACTAGCCAGGTCCTCATGCGAAGACC  
ATCCCAAGCCTGACCCGACATGCCCTGGACATGGGGCCCACTACGCGCAGACCATGCAGC  
GAGAGACGCATGACACCAGGCAACAACGCGGGCCACGAACGCGAGCGTTGCCTGCATCGA  
CGGGCACGGTTGGCCACAGACACGGAATTGCAGCGGAGCCACACGTGGCAGCCCCTGAGG  
CCCGACGACACCCGGTGCACCGAAGGGGGCCATGGCAACCACGACCTGGCAGGCTTGACAC  
ACCAAGCGCCATACCACGCGCGTGAAAGGGTACAGAGGCACCAACTACCCAGTGCAAGCG  
CAGTTCTTGCAAGGCGATGCCAAGGGAACGGCACGACATGACGACACCGCAGTACTCTGT  
GAGGAAACCATCTTAGCAAGATGACAGCCTTGACAGGAAACAACGACACGAAGTGCCTGT  
CTCGCAACGCATGACAGAAGACCTGTGCGCATATAAAGTAAATGTGATACTAATAGAAAGC  
AAGAAGGTTGACACTGAAAGACACACATATGAGTATAACTCGAGTATGCAACGTGAACAT  
G

FIGURE 7